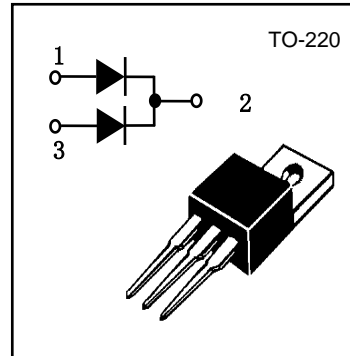


APPLICATIONS

- High efficiency switch mode power supplies
- Free wheeling diodes.polarity protection application

FEATURES

- Common cathode structure
- Low power loss,high efficiency
- High Operating Junction Temperature.
- Guard ring for overvoltage protection,High reliability
- ROHS product



绝对最大额定值 ABSOLUTE RATINGS(Tc=25°C)

项目 Parameter	符号 SYMBOL	数值 Value	单位 UNIT
最大反向重复峰值电压 Repetitive peak reverse voltage	VRRM	100	V
最大直流阻断电压 Maximum DC blocking voltage	VDC	100	V
正向平均整流电流 Average forward current	IF(AV)	30	A
整个器件 per device		15	
单侧 per diode			
正向峰值浪涌电流 Surge non repetitive forward current	IFSM	275	A
最高结温 Maximum junction temperature	TJ	175	°C
存储温度 Storage temperature range	TSTG	-40~+150	°C

电特性 Electronic Characteristics(Tc=25°C)

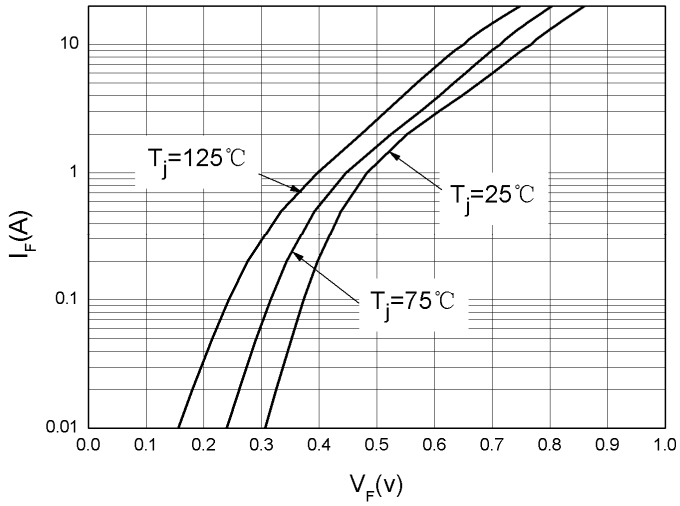
项目 Parameter	测试条件 Tests conditions		最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单位 UNIT
IR	TJ=25°C	VR=VRRM			30	uA
	TJ=125°C				30	mA
VF	TJ=25°C	IF=10A		0.82	0.93	V
	TJ=125°C			0.71	0.75	V

热特性 THERMAL CHARACTERISTICS

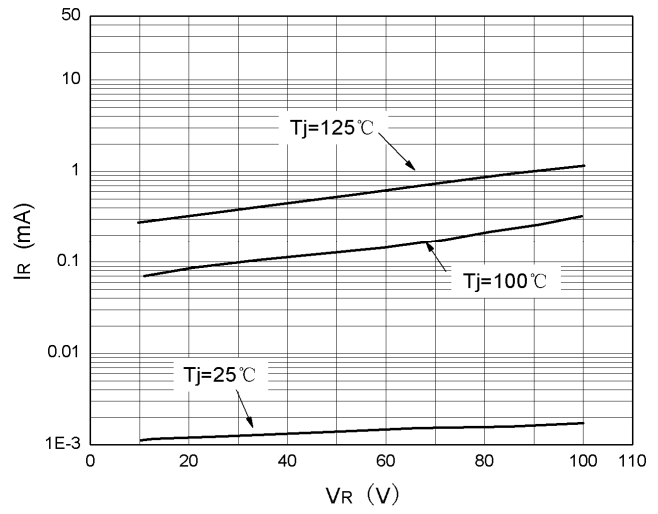
项目 Parameter	符号 Symbol	最小值 Value(min)	最大值 Value(max)	单位 Unit
结到管壳的热阻 Thermal resistance from junction to case	Rth(j-c)		1.8	°C/W

特性曲线 ELECTRICAL CHARACTERISTICS (curves)

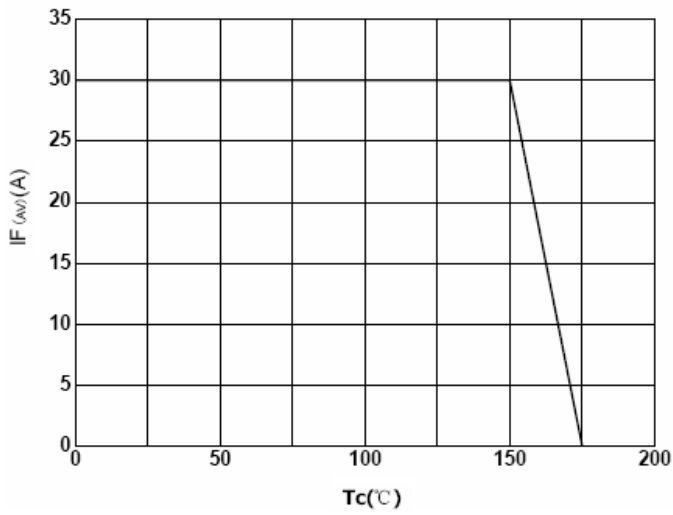
IF vs VF



IR vs VR



IF(AV) vs Tc



CT vs VR

